

## GA202TXV1SZ

## OPIC Light Detector

\* OPIC Light Detector for Dual-wavelength Laser Diode

### Features

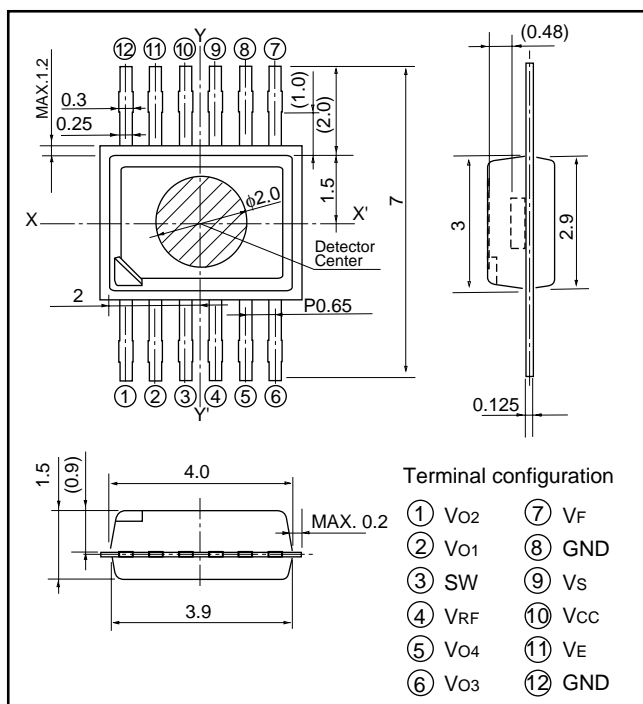
- (1) Suitable for Dual-wavelength laser diode
- (2) Compact and thin package  
(Package dimensions :  $4.0 \times 2.9 \times 1.5\text{mm}$ )
- (3) OPIC light detector  
(Integrates 10-division PIN photodiode.IC onto a single chip)  
DVD Player : 6× speed reading

### Applications

- (1) DVD Player

### Outline Dimensions

(Unit:mm)



\* "OPIC" (Optical IC) is a trademark of SHARP Corporation.  
An OPIC consists of a light-detecting element and a signal-processing circuit integrated onto a single chip.

### Specifications

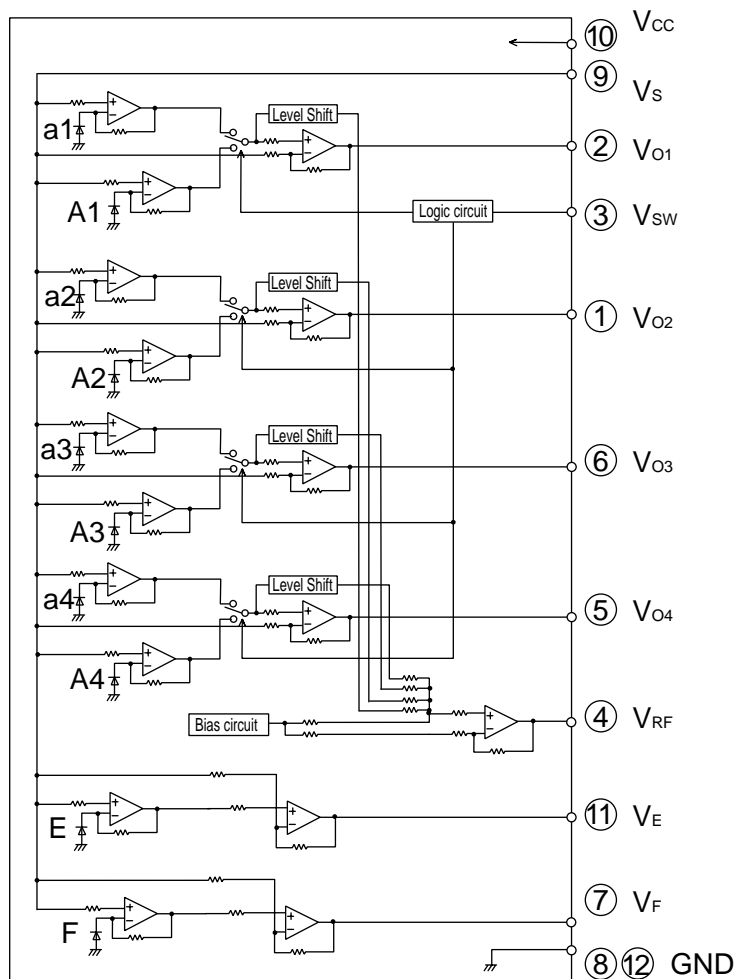
(Ta=25°C)

Parameter	Symbol	Characteristics	Condition
Supply voltage	Vcc	4.5 to 5.5 V	—
Output off-set voltage	Vod	± 20 mV	Vo1 ~ Vo4, Vs base
Sensitivity	RP	TYP. 34.2 mV/μW	λ= 780 nm, Vo1~Vo4
		TYP. 29.1 mV/μW	λ= 650 nm, Vo1~Vo4
Response frequency	fc	MIN. 30 MHz	λ= 780 nm, Vo1~Vo4
		MIN. 40 MHz	λ= 650 nm, Vo1~Vo4
Maximum output amplitude	VOH	MIN. 3.8V	Vo1~Vo4
Output noise level	Vn	TYP. - 78 dBm	Vo1~Vo4, f=27 MHz,BW=30 kHz
Operating temperature	Topr	- 30 to + 80°C	—

(Notice)

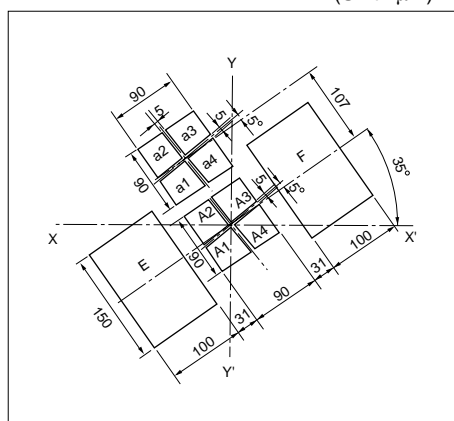
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### Internal Block Diagram



### Detecting Pattern of Photodiode

(Unit :  $\mu\text{m}$ )



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